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10/718,944	11/21/2003	Steven R. Sedlmayr	AUO1019	3586
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Law Office of Roxana H. Yang			PRITCHETT, JOSHUA L	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/718,944	SEDLMAYR, STEVEN R.	
Office Action Summary	Examiner	Art Unit	
	Joshua L. Pritchett	2872	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	L. ely filed the mailing date of this communication. O (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on <u>25 Ap</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims	•		
4) ☐ Claim(s) See Continuation Sheet is/are pendin 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) See Continuation Sheet is/are rejecte 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 21 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine	wn from consideration. d. r election requirement. r. re: a)⊠ accepted or b)□ object drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

Continuation Sheet (PTOL-326)

Application No. 10/718,944

Continuation of Disposition of Claims: Claims pending in the application are 176-178,180-182,185-188,190-192,194-196,199-202,204-207,209-211,214-220,222-224,227-230 and 232.

Continuation of Disposition of Claims: Claims rejected are 176-178,180-182,185-188,190-192,194-196,199-202,204-207,209-211,214-220,222-224,227-230 and 232.

DETAILED ACTION

This action is in response to Amendment filed April 25, 2006. Claims 176, 180-182, 185-188, 190, 194-196, 199-202, 205 and 217 have been amended as requested by the applicant.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 176, 178, 181, 182, 185, 187, 188, 190, 192, 195, 196, 199, 201, 202, 204, 205, 207, 210, 211, 214, 216-218, 220, 223, 224, 227, 229, 230 and 232 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muro (JP 63236494) in view of Konno (US 4,497,015).

Regarding 176, 185, 190, 199, 204-205, 214, 217, 227 and 232, Muro et al. disclose in figs. 3-4 a system and method of producing a collinear beam of electromagnetic energy/light light having two constituent parts, comprising (a) means (10) for providing a primary beam of electromagnetic energy/light having a predetermined range of wavelengths and randomly changing orientations of a chosen component of electromagnetic wave field vectors, which includes producing an initial beam of ultraviolet (abstract, a halogen lamp inherently has

ultraviolet wavelengths; (b) means (13) for resolving the primary beam of electromagnetic energy/light into a primary first resolved beam (travels toward 15) of electromagnetic energy/light having substantially a first selected predetermined orientation of a chosen component of the electromagnetic wave field vectors (S) and a primary second resolved beam (travels toward 19', 20') of electromagnetic energy having substantially a second selected predetermined orientation of a chosen component of the electromagnetic wave field vectors (P); (c) means (19', 20', 19" 20") for separating each of the primary resolved beams of electromagnetic energy/light into two or more separate beams of electromagnetic energy/light, each of the separate beams of electromagnetic energy/light having a selected predetermined orientation of a chosen component of electromagnetic wave field vectors (P or S); (d) adjusting at least one of the two or more collimated separate beams of electromagnetic energy by removing at least a predetermined portion of electromagnetic energy from the at least one beam at a beam stop (20' and 19') the beamsplitters of Muro (19' and 20') will block a portion of the light incident the valve outside the aperture of the beamsplitter, thus the beamsplitter functions as a beam stop for errant light; (e) means (171', 172' (not shown in fig. 4), 173', 171" 172' ' (not shown in fig. 4), 173'') for altering the selected predetermined orientation of the chosen component of the electromagnetic wave field vectors of a plurality of portions of each of the separate beams of electromagnetic energy/light by passing each of the separate beams of electromagnetic energy/light through a respective one of a plurality of altering means whereby the selected predetermined orientation of the chosen component of the electromagnetic wave field vectors of the plurality of portions of each of the separate beams of electromagnetic energy/light is altered in response to a stimulus means by applying a signal means to the stimulus

means in a predetermined manner as each of the separate beams of electromagnetic energy/light passes through the respective one of the plurality of means for altering the selected predetermined orientation of the chosen component of the electromagnetic wave field vectors (Abstract, see description of LC panels; (f) (i) means (21', 22') for combining the altered separate beams of electromagnetic energy/light of the primary first resolved beam of electromagnetic energy/light into a first single collinear beam of electromagnetic energy/light without substantially changing the altered selected predetermined orientation of the chosen component of the electromagnetic wave field vectors of the plurality of portions of each of the separate beams of electromagnetic energy/light, and (ii) means (21" 22' ') for combining the substantially collimated altered separate beams of electromagnetic energy/light of the primary second resolved beam of electromagnetic energy/light into a second single collinear beam of electromagnetic energy/light without substantially changing the altered selected predetermined orientation of the chosen component of the electromagnetic wave field vectors of the plurality of portions of each of the separate beams of electromagnetic energy; (g) (i) means (18) for resolving from the first single collinear beam of electromagnetic energy a first resolved beam of electromagnetic energy/light having substantially a first selected

first resolved beam of electromagnetic energy/light having substantially a first selected predetermined orientation of a chosen component of electromagnetic wave field vectors and a second resolved beam of electromagnetic energy/light having substantially a second selected predetermined orientation of a chosen component of electromagnetic wave field vectors, and (ii) means (18) for resolving from the second single collinear beam of electromagnetic energy/light first resolved beam of electromagnetic energy/light having substantially a first selected predetermined orientation of a chosen component of electromagnetic wave field vectors and a

second resolved beam of electromagnetic energy/light having substantially a second selected predetermined orientation of a chosen component of electromagnetic wave field vectors; (h) means (18) for merging one of the resolved beams of electromagnetic energy/light from the first single collinear beam of electromagnetic energy/light with one of the other resolved beams of electromagnetic energy/light from the collimated single collinear beam of electromagnetic energy/light into a third single collinear beam of electromagnetic energy/light, wherein the means for merging of the resolved beams includes means for merging of the resolved beams in which the plurality of portions of one of the merged beams has a different selected predetermined orientation (S) of a chosen component of electromagnetic wave field vectors from that of the plurality of portions of the other merged beam (P); (i) means (11) for projecting said third single collinear beam of electromagnetic energy/light onto a projection means/screen (6), said third single collinear beam of light being viewable as a three-dimensional image (with 9, see abstract). Muro et al. discloses the claimed invention except for providing a means for substantially collimating the primary beam of electromagnetic energy/light which then remains collimated throughout the processes of resolving, separating, altering, combining, resolving and merging the beams. Konno et al. teach a light illumination device (fig. 5) which produces a primary beam (at M) which is collimated and has a substantially uniform flux intensity substantially across the initial beam of light (column 5, lines 43-52). It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the light source of Muro et al. with that of Konno et al. to have a collimated and more uniform intensity light beam and therefore provide a more consistent image. Therefore the beam would be collimated

throughout the processes of resolving, separating, altering, combining, resolving and merging.

The method of utilizing the structure of the claim is inherent therein.

Regarding 178, 192, 207 and 220, Muro et al. further disclose wherein the means (13) for resolving the primary beam includes means (13) for resolving the primary beam into primary first and second resolved beams in which the first selected predetermined orientation of the chosen component of the electromagnetic wave field vectors of the first resolved beam has the selected predetermined orientation of the chosen component of the electromagnetic wave field vectors different from the second selected predetermined orientation of the chosen component of the electromagnetic wave field vectors of the second resolved beam (S versus P).

Regarding claims 181-182, 187-188, 195-196, 201-202, 210-21 1, 216, 218, 223-224 and 229-230, Muro et al. further disclose wherein the means (18) for merging the resolved beams includes means (18) for merging the resolved beams in which each merged beam has its plurality of portions parallel and partially coincident (in so far as any portion is coincident) or simultaneous to the plurality of portions of the other merged beam (figs. 3 and 4).

Claims 1 80, 186, 194, 200, 209, 2 1 5, 222 and 228 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muro et al. in view of Konno et al. as applied to claims 176, 190, 205 and 217 above and further in view of Craig, US 4,740,836.

Muro et al. in view of Konno et al. as applied to claims 176, 190, 205 and 2 17 above disclose the claimed invention except where the each of the merged beams has its plurality of portions noncoincident to the plurality of portions of the other merged beam. Craig teaches systems for viewing images in which two images are noncoincident to provide stereoscopic or three-

dimensional views to the user (column 1, lines 16-40 and figs. 1 and 4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the images of Muro et al. in view of Konno et al. noncoincident to provide a three-dimensional projector which will work with many different stereoscopic imaging techniques like those suggested by Craig.

Claims 177, 191, 206 and 219 are rejected under 35 U.S.C. 103(a) as being unpatentable Muro et al. in view of Konno et al. as applied to claims 176, 190, 205 and 217 above over Muro et al. in view of Konno et al. as applied to claims 176, 190, 205 and 217 above and further in view of Baur et al. US 5, 115,305.

Muro in combination with Konno disclose the claimed invention except for wherein the means for resolving the substantially collimated primary beam includes means for resolving the substantially collimated primary beam into substantially collimated primary first and second resolved beams in which the first selected predetermined orientation of the chosen component of the electromagnetic wave field vectors of the first resolved beam has the same selected predetermined orientation of the chosen component of the electromagnetic wave field vectors as that of the second selected predetermined orientation of the chosen component of the electromagnetic wave field vectors of the second resolved beam. Baur et al. teaches in fig. 1, system and method of producing a modulated beam of electromagnetic energy/light which includes resolving, rotating, separating, altering, combining and resolving a beam of electromagnetic energy/light. More specifically Baur et al. teach means (33) for rotating the second selected predetermined orientation (P) of a chosen component of the electromagnetic

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wave field vectors of the primary second resolved beam (24) of electromagnetic energy/light to be substantially the same (S) as the first selected predetermined orientation (S) of a chosen component of the electromagnetic wave field vectors of the primary first resolved beam (26) of electromagnetic energy (column 9, lines 2 1-28), as well as a second means (45) to be able to recombine the altered beams with a polarized beam splitter (see column 8, lines 2-10). It would have been obvious to one of ordinary skill in the art at the time the invention was made to add the means to rotate polarization of Baur et al. to the system of Muro et al. in view of Konno et al. to be able to use components with like polarizers thus reducing the number of different types of parts in the system.

Response to Arguments

Applicant's arguments filed April 25, 2006 have been fully considered but they are not persuasive.

Applicant argues that the prior art fails to teach or suggest the newly added limitations regarding a beam stop. As stated in the rejection above the beamsplitter act as beam stops capable of blocking errant light from passing through the aperture of the beamsplitter.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua L. Pritchett whose telephone number is 571-272-2318. The examiner can normally be reached on Monday - Friday 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew A. Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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Joshua L Pritchett Examiner Art Unit 2872

JLP 🖟

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